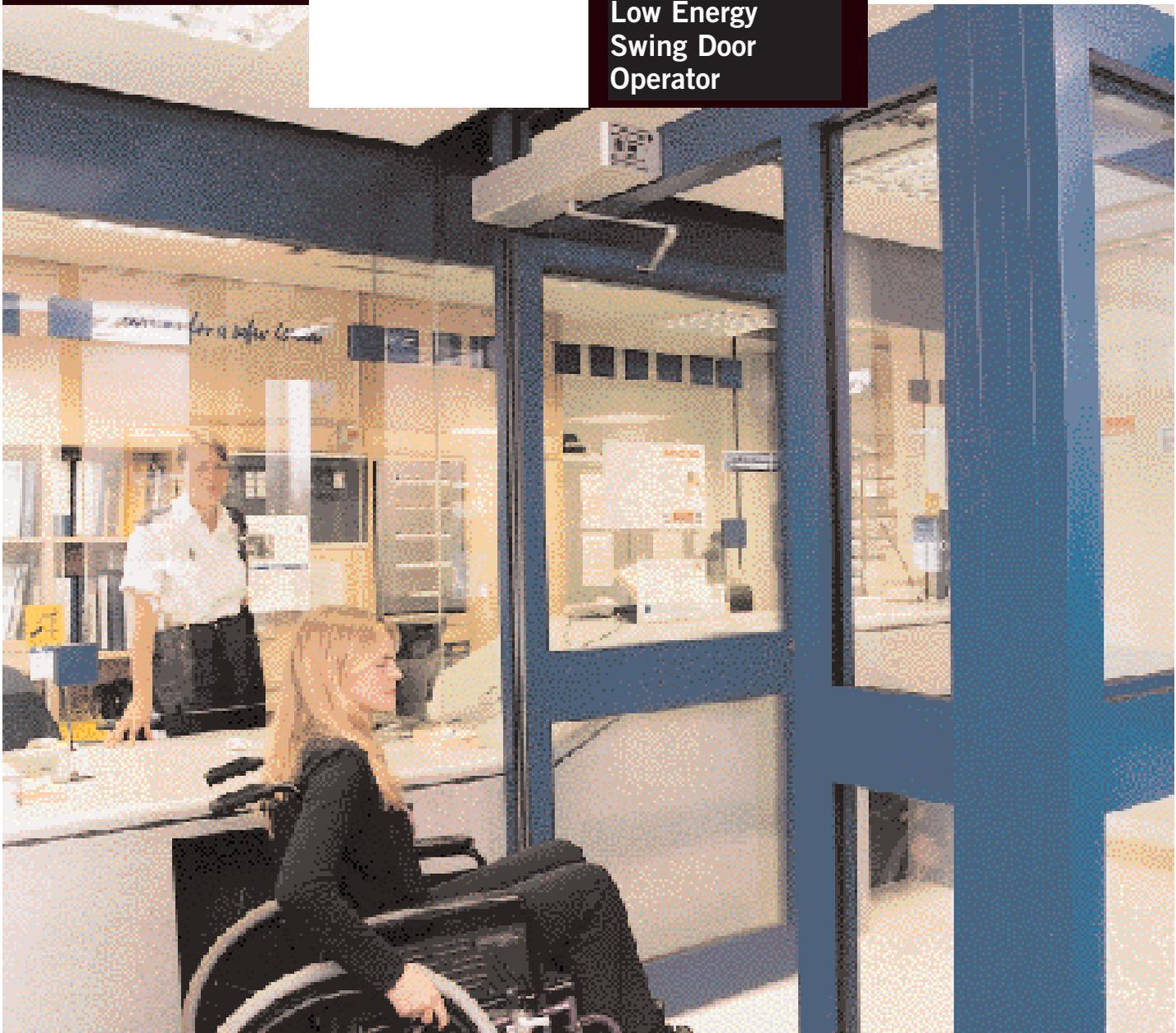


DORMA ED 800

**Low Energy
Swing Door
Operator**





DORMA ED 800

10 Million People

At any one time, 10 million people in the United Kingdom experience impaired mobility. Some are permanently affected, others only temporarily.

Difficulties with access are not just confined to people in wheelchairs but also to people who suffer mobility problems due to injury, illness, pregnancy and ageing.

Disability Affects All

In addition, and all too often forgotten, access can be a problem for people who are traditionally classed as 'able bodied' such as people pushing prams, pushchairs, looking after toddlers and carrying shopping bags or parcels.

Many would think of themselves as 'inconvenienced' rather than 'disabled' but the effect is exactly the same.

Everyday people experience problems with one of the most basic requirements for independent life - ease of access.

Change Our Minds

Too often the only time we think about the needs of people with mobility problems is when we experience them ourselves. It is then we discover a world where environments are too often not designed for easy access.

People are often handicapped more by obstacles in the environment than by their own capabilities.

Access could be a lot easier for everyone with a little more insight at the design stage or with some minor modifications to the building.

Universal Access

The aim should be for unhindered universal access. There should not be the need for 'special' provisions, singling people with mobility difficulties out as being abnormal.

Easy access should be possible for everyone anywhere, anytime. Making access easy should be something that is standard in all buildings.

And the incentive to change is moving from a moral obligation to a legal one.

The Disability Discrimination Act

The Disability Discrimination Act 1995 requires that all people with disabilities are able to use a building and have access to the services provided within the building.

Part III of the Act concerns itself with the duties imposed upon those providing goods, facilities and services ('service providers') not to discriminate against people with disabilities.

A service provider is defined as any entity which offers a service to the public, regardless of whether that service is free or paid for. The Act applies to 'access to and use of any place which members of the public are permitted to enter'.

**Universal
Access**

Disability Discrimination Act 1995 21-(2)

Where a physical feature (for example, one arising from the design or construction of a building or the approach or access to premises) makes it impossible or unreasonably difficult for disabled persons to make use of such a service, it is the duty of the provider of that service to take such steps as it is reasonable, in all the circumstances of the case, for him to have to take in order to:-

- remove the feature
- alter it so that it no longer has that effect
- provide a reasonable means of avoiding the feature; or
- provide a reasonable alternative method of making the service in question available to disabled persons.



Document M

Automatic doors are the ideal solution to access into and around a building. The new approved Document M 2004 states "A powered door opening and closing system, either manually controlled or automatically operated by sensors, is the most satisfactory solution for most people.

Full Time Automatic Operation

If a fully automatic door is required, DORMA have a wide range of options to suit every possible application. However in many cases a low energy door operator such as the ED 800 may be suitable.

DORMA ED 800

DORMA ED 800 is a specialist powered swing door operator designed especially to provide easy and safe access for all users.

The unit offers a range of operating modes that enable the door to be opened under power when required and allow the door to be used as a conventional manual swing door at all other times.

DORMA ED 800



Safe, Easy Access



Operating Models

Low Energy Mode

In low energy mode the door operates as a standard manual door closer unless someone requires assistance. By pushing a button, an elbow pad or actuating the operator in any other way, the ED 800 opens the door at a precisely controlled speed. After the pre-set hold-open time, the door will slowly close.

Power Assist Mode

ED 800 assists the user as he or she opens the door, making the door appear considerably lighter than it really is.

Push And Go Facility

With this facility if the door is pushed open the intelligent ED 800 determines whether the user requires assistance by monitoring the initial opening speed of the door.

If no assistance is required, ED 800 operates as a conventional manual closer.

If ED 800 deduces that the user does require assistance, the unit enters either low energy or power assist mode according to which has been selected.

Safety

DORMA ED 800 opens the door at precisely controlled speeds and forces guaranteeing safety to all users.

If the door touches an obstacle when opening under power or closing after a powered open cycle, DORMA ED 800 will stop immediately and enter a 'balanced' state. The door can then be opened or closed when it is safe to do so, or will close automatically after the pre-set hold open time has passed.

ED 800 does not require additional safety equipment. As a result it is not only extremely safe but is also substantially less expensive than a traditional automatic swing door operator.

Power Failure

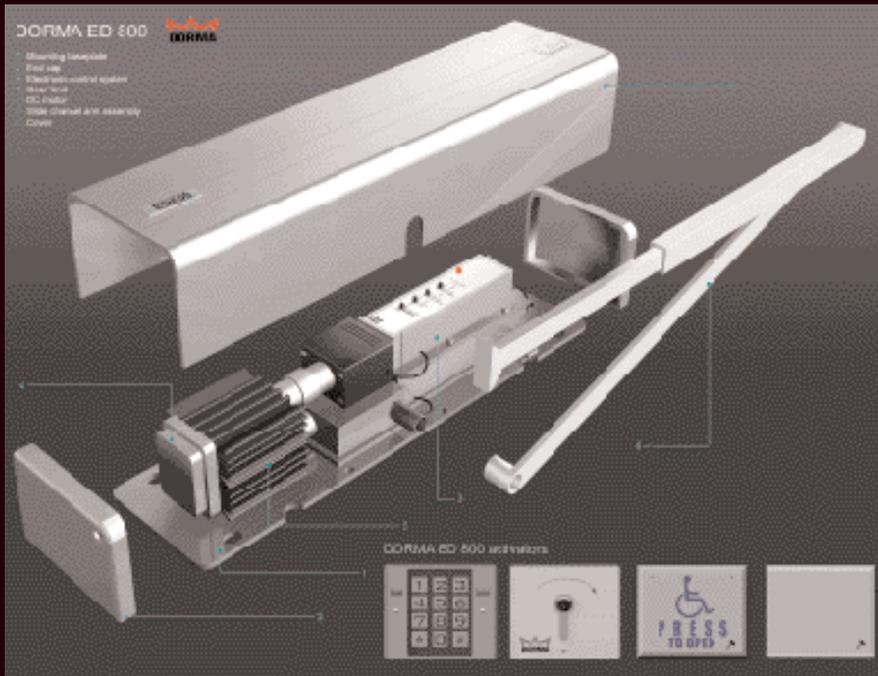
If there is a break in the mains power supply to DORMA ED 800, the unit will operate as a conventional manual door closer ensuring safe exit in case of an emergency.

Installation

DORMA ED 800 is easy to install and can be fitted to new or existing doors, making it the ideal operator for improving access in existing buildings.

Intelligence

ED 800 features a sophisticated 8 bit microprocessor that constantly monitors the door position, operating forces, resistance, wind/draught conditions, opening and closing speeds and other variables. It will detect the slightest deviation from the programmed norm and respond instantly.



DORMA ED 800

Technical Details

ED 800 is based on the DORMA TS83 manual rack and pinion door closer and offers the same sweep, latch, backcheck, adjustable spring power and operating efficiencies. When not activated, ED 800 operates as a manual door closer. Upon activation the unit will open the door, hold the door open for a predetermined period, and close the door under the parameters set forth by the British Standard (BS: 7036: 1996).

ED 800 has an open trigger to activate the door opening. It also has a standard vestibule function available, allowing two units to be interconnected. Upon the

completion of the closing cycle of the first unit, an activation signal will be sent to the second unit. This activation functions in both directions. If the interior door is activated first, it will then signal the exterior door to open. If the exterior door is activated first, it will then signal the interior door to open.

ED 800 also has a standard strike release/latch retraction function. This can be used to control the release of an electric strike, or the retraction of an electric latch, in conjunction with the operation of the ED 800. Upon activation of the unit, a signal is immediately sent

to release the strike or retract the latch. This signal will last for one second. The door activation is automatically delayed for 1/2 second, to allow the strike to be de-energized or the latch to retract. This feature is only activated when the door is in the closed position, so that electric strikes or electric latch bolts are not operated needlessly.

In addition, ED 800 offers an external output terminal which can be used to power an electric strike or any accessory of compatible voltage.

ED 800 is a single, full-

featured unit so versatile, so flexible, that it will meet almost every installation configuration. Left or right handed doors, push-side or pull-side mount, power-assist or low-energy operation all variations are accommodated in the standard unit.

Mode selection is made by moving an internal slide switch to select the desired function, allowing the ideal to be selected for the individual requirements of an application.

DORMA ED 800 at a Glance

Functions

Low energy

The unit is activated by the user and opens and closes the door at controlled speeds. Otherwise ED 800 acts as a conventional manual swing door closer.

Power assist

ED 800 assists the user with the opening of the door - making opening of the door almost effortless while still requiring continuous action from the user.

Actuation

External actuators

Can be linked to a variety of actuators including push pads, remote controls, a numeric keypad, cardswipe etc.

Push and Go facility

This is integrated into ED 800 and selected by an internal switch. The unit activates after the door is pushed open beyond 25mm if it senses, by the speed at which the user opens the door, that assistance is required. If ED 800 senses that no assistance is required, the unit operates as a conventional manual door closer.

Features

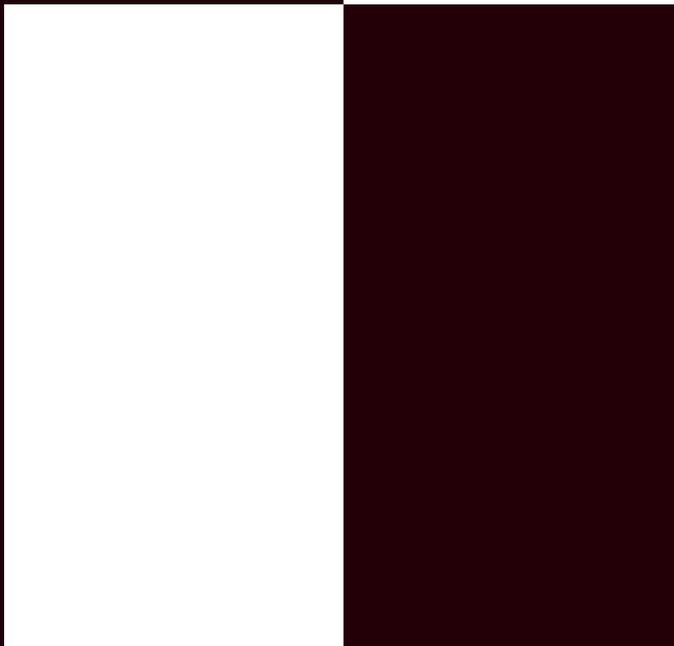
- Reliably controls doors from 45kg - 90kg.
- A wide variety of activation options including wall switch, push-pads, remote control, etc.
- Quick, uncomplicated installation.
- Suitable for retrofit or new installations.
- ED 800 can operate doors opening to the right or to the left, push or pull operation of doors from 750mm - 1200mm wide.
- The hold-open time is adjustable from 5 to 65 seconds.

Technical Information

DORMA ED 800 SURFACE APPLIED LOW ENERGY SWING DOOR OPERATOR SPECIFICATION FOR SINGLE DOORS

- Manufacturer and reference: DORMA ED800 low energy swing door operators
- Drawing reference:
- Number required:
- Electrohydraulic automatic drive unit incorporating a motor TS83 hydraulic closer and built in electronic control system.
- Automatics opening by electromechanical control of integral door closer.
- Automatics closing by hydraulic spring independent of mains power.
- In the event of power failure door reverts to hydraulically controlled manual operation.
- Door operators interface with fire alarm system enabling doors to revert to manual operation upon a signal from the fire alarm system.
- Steplessly adjustable closing force between spring size 3 and size 5
- Opening speed adjustable between 3 and 10 seconds
- Hold open time adjustable between 5 and 65 seconds
- 3 position mode switch (off, automatic, hold open)
- Standard push action drive arms.
- Channel slide pull action drive arms.
- Integral safety systems with door balancing when encountering an obstruction.
- Wireless wall switch actuation (150mm x 150mm) satin stainless steel complete with radio control.
- DORMA SB-R Tubular safety barriers with toughened glass infills installed along the line of doors in the open position where the doors can be approached from the side.
- Finish: Painted silver
- The installation shall comply fully with BS 7036 (the code of practice for safety at powered doors for pedestrian use).
- Installation shall be carried out by the manufacturers engineers.
- The electrical contractor shall provide a 240-volt AC mains spur to the left-hand side of the opening above and on the same face that each drive unit is fitted. The spur must be switched and fused with a central flex outlet faceplate. A 10 amp residual circuit breaker at the main board and a 5-amp fuse at the spur shall protect the circuit.
- The fire alarm specialist shall provide a normal open volt free contact that is close on alarm. The contacts shall be terminated adjacent to the fused spurs.

For more information on DORMA visit www.barbourproductsearch.info



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